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HARRINGTON &amp; SMITH

NO. 364 P. 2/12

Appl. No.: 10/806,731

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Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently amended) An electrical connector adapted to connect to a mating electrical connector comprising:

electrical contacts; and

a first housing member having contact receiving areas, wherein the electrical contacts are located in the contact receiving areas; and

a second housing member connected to the first housing member, wherein the first housing member comprises a mating electrical connector latch comprising a latch surface at a front end of the latch and a lever arm extending rearward from the front end of the latch, and wherein the lever arm is sized and shaped to pivot ~~on top of~~ about and against a portion of the second housing member.

2. (Original) An electrical connector as in claim 1 wherein the first housing member comprises a first deflectable arm connecting the latch to the first housing member, wherein the first deflectable arm is connected to the latch at the front end of the latch.

3. (Original) An electrical connector as in claim 2 wherein the first housing member comprises a second deflectable arm

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connecting the latch to the first housing member, wherein the a second deflectable arm is connected to the latch at the front end of the latch.

4. (Original) An electrical connector as in claim 3 wherein the first and second deflectable arms are connected to the first housing member proximate a center section of the latch.

5. (Previously presented) An electrical connector comprising:

electrical contacts; and

a first housing member having contact receiving areas, wherein the electrical contacts are located in the contact receiving areas; and

a second housing member connected to the first housing member, wherein the first housing member comprises a mating electrical connector latch comprising a latch surface at a front end of the latch and a lever arm extending rearward from the front end of the latch, and wherein the lever arm is adapted to pivot on top of a portion of the second housing member,

wherein a rear end of the latch comprises a finger contact section, and a wherein the portion of the second housing member comprises a fulcrum rib contacting a bottom side of the lever between the front end and the rear end.

6. (Previously presented) An electrical connector comprising:

electrical contacts; and

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a first housing member having contact receiving areas, wherein the electrical contacts are located in the contact receiving areas; and

a second housing member connected to the first housing member, wherein the first housing member comprises a mating electrical connector latch comprising a latch surface at a front end of the latch and a lever arm extending rearward from the front end of the latch, and wherein the lever arm is adapted to pivot on top of a portion of the second housing member,

wherein a rear end of the latch comprises a projection located beneath a ledge of the second housing member.

7. (Original) An electrical connector as in claim 6 wherein the ledge of the second housing member and the projection on the rear end of the latch for a latch overstress protection system adapted to limit movement of the second end of the latch in an outward direction.

8. (Original) An electrical connector as in claim 1 further comprising an electrical conductor seal, wherein the second housing member comprises a seal retainer which is connected to the first housing member to retain the seal with the first housing member.

9. (Previously presented) An electrical connector comprising:  
electrical contacts; and

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a first housing member having contact receiving areas, wherein the electrical contacts are located in the contact receiving areas; and

a second housing member connected to the first housing member, wherein the first housing member comprises a mating electrical connector latch comprising a latch surface at a front end of the latch and a lever arm extending rearward from the front end of the latch, and wherein the lever arm is adapted to pivot on top of a portion of the second housing member,

wherein the second housing member comprises a grip rib behind a rear end of the latch which has a top surface that is located vertically above the rear end of the latch only when the rear end of the latch is depressed inward.

10. (Currently amended) An electrical connector housing adapted to connect to a housing of a mating electrical connector comprising:

a first housing member comprising a ~~movable~~ pivotal mating electrical connector latch, the latch having a first end with a latching surface and an opposite second end; and

a second housing member connected to the first housing member, the second housing member comprising a latch overstress protection section comprising a portion of the second housing member being sized and shaped to be contacted by the second end of the latch to limit pivotal

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movement of the second end of the latch in an outward direction.

11. (Original) An electrical connector housing as in claim 10 wherein the second housing member comprises a pivot rib, wherein the latch is located on top of the pivot rib and is adapted to pivot on the pivot rib to move the latching surface inward and outward.

12. (Original) An electrical connector housing as an claim 10 wherein the first housing member comprises a first deflectable arm connecting the latch to the first housing member, wherein the first deflectable arm is connected to the latch at the first end of the latch.

13. (Previously presented) An electrical connector as in claim 12 wherein the first housing member comprises a second deflectable arm connecting the latch to the first housing member, wherein the second deflectable arm is connected to the latch at the first end of the latch.

14. (Original) An electrical connector as in claim 13 wherein the first and second deflectable arms are connected to the first housing member proximate a center section of the latch.

15. (Original) An electrical connector as in claim 10 wherein the second end of the latch comprises a finger contact section, and a wherein a portion of the second housing member comprises a fulcrum rib contacting a bottom side of the lever between the first end and the second end.

16. (Original) An electrical connector as in claim 10 wherein the second end of the latch comprises a projection located

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beneath the latch overstress protection section of the second housing member.

17. (Original) An electrical connector as in claim 10 further comprising an electrical conductor seal, wherein the second housing member comprises a seal retainer which is connected to the first housing member to retain the seal with the first housing member.

18. (Original) An electrical connector as in claim 10 wherein the second housing member comprises a grip rib behind the second end of the latch which has a top surface that is located vertically above the second end of the latch only when the second end of the latch is depressed inward.

19. (Original) An electrical connector housing comprising:

a main housing having a movable mating electrical connector latch, the latch comprising a front end with a latching surface and an opposite rear end with a finger contact section; and

a seal retainer adapted to be connected to the main housing to retain a seal inside the main housing, the seal retainer comprising a fulcrum section for the latch to pivot on and a grip rib behind the rear end of the latch which has a top surface that is located vertically above the rear end of the latch only when the rear end of the latch is depressed inward.

20. (Original) An electrical connector housing as in claim 19 wherein the first housing member comprises two deflectable arms connecting the latch to the first housing member, wherein

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the deflectable arms are connected to the latch at the front end of the latch and connected to the first housing member proximate a middle section of the latch.

21. (Currently amended) An electrical connector comprising;

electrical contacts;

a first housing member having contact receiving areas, wherein the electrical contacts are located in the contact receiving areas;

a seal on the first housing member; and

a seal retainer housing member connected to the first housing member and retaining the seal on the first housing member,

wherein the first housing member comprises a mating electrical connector latch comprising a latch surface at a front end of the latch and a lever arm extending rearward from the front end of the latch, and wherein the lever arm comprises a user contact surface at a rear end of the lever arm which is located ~~over~~ directly above the seal retainer housing member.

22. (Previously presented) An electrical connector as in claim 21 wherein the mating electrical connector latch comprises two deflectable arms fixedly attached to the first housing member at two spaced points.

23. (Previously presented) An electrical connector as in claim 22 wherein the two deflectable arms comprise front ends

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connected to the front end of the latch and rear ends connected to the two spaced points.

24. (Currently amended) An electrical connector comprising:

electrical contacts; and

a first housing member having contact receiving areas, wherein the electrical contacts are located in the contact receiving areas; and

a second housing member connected to the first housing member,

wherein the first housing member comprises a mating electrical connector latch comprising a latch surface at a front end of the latch and a lever arm extending rearward from the front end of the latch, wherein the lever arm comprises a user contact surface at a rear end of the lever arm, wherein the mating electrical connector latch comprises two deflectable arms wherein the two deflectable arms comprise front ends connected to the front end of the latch and rear ends fixedly attached to the first housing member at two spaced points, wherein the rear ends connect the latch to the first housing member.